

Abstract of the Disclosure

A gain unit scales a code vector C_i output from a configuration variable code book by a gain g after the positions of non-zero samples are controlled according to an index and transmission parameter p . A linear prediction synthesis filter input the multiplication result, and outputs a regenerated signal gAC_i . A subtracter outputs an error signal E by subtracting the regenerated signal gAC_i from an input signal X . A error power evaluation unit computes an error power according to an error signal E . The above described processes are performed on all code vectors C_i and gains g . The index i of the code vector C_i and the gain g with which the error power is the smallest are computed and transmitted to the decoder.

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